12 Oct 70

Bruce:

The D.O. re Prepared looks good & includes most of the Items we work with too. attached a list of Items for your review & possible additions to the Test Kit.

We ( ) would be STAT interested in joint procurement and est. we could use a minimum of 4 Test Kits.

STAT

6 oct '70

OPTICAL EQUIPMENT TEST KIT

Recommended additions:

1. Accurate STOP WATCH.

2. DYNAMOMETER, TENSION, DIAL GUAGE.

3. Lens and Negative Brushes Camel Hair.

4. DIAL THICKNESS GAUGE, Graduations in .001".

5. SMALL Flash Light OR PEN Light.

6. MAGNIFYING [illegible], CIRCULAR, 3" or 4" DIA.

7. COMPARATOR AND RETICLES.
"see attached description."

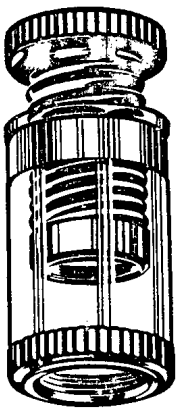
8. Small, light weight, & best quality 35mm Camera with Flash attachment. (Not required for every KIT but enough available for use in the field!!

STAT

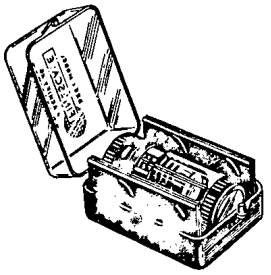
FOR MINIATURE MEASUREMENTS

FOCUSING MAGNIFIER

TRANSPARENT BARREL



INTERCHANGEABLE RETICLE (TRANSPARENT SCALE)

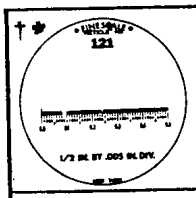


DESK MODEL T-4R
COMPARATOR
WITH MAGNIFIER AND FOUR PAIRS OF RETICLES, Nos. 121, 122, 123, 124, IN COMPACT CASE
$19.50

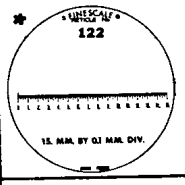
Accurate, easy to use, this comparator can be positioned on objects of any size. Approximately 6X magnification. Ideal for checking small parts and dimensions. Complete selection of 30 reticles listed below.

ADDITIONAL RETICLES LISTED BELOW
$2.00 each

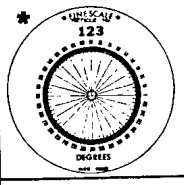
(Specify by number)



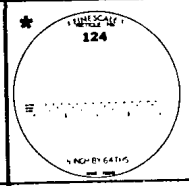
No. 121 — ½ in. By .005 in. Div.
This is the most popular scale for mechanics; toolmakers, and engineers working with decimal measurements.



No. 122 — 15. mm By 0.1 mm Div.
This is the most useful scale for scientists, laboratory technicians, and others using the metric system.

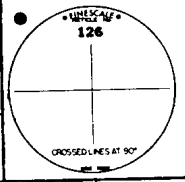


No. 123 — Degrees.
A full circle protractor with 1.° divisions. A generally useful scale.

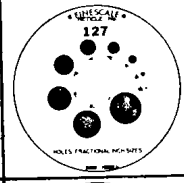


No. 124 — ½ in. By 64ths.
Open scale and fine lines permit very accurate measurements for those preferring fractional dimensions.

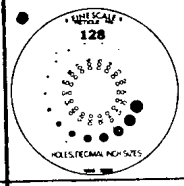
No. 125 — Widths, Decimal inch sizes.
Eighteen sizes, .001" to .050". Used in checking the width of drawn or scribed lines; slots, etc. Compare with No. 140.



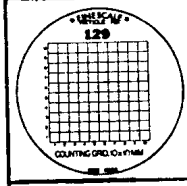
No. 126 — Crossed lines at 90°.
For quickly checking the squareness of small layouts and parts.



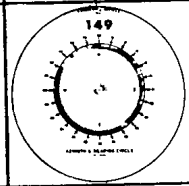
No. 127 — Holes, Fractional inch sizes.
Nine holes ranging from 1/128 in. to 1/8 in. in diameter. For checking holes, voids, flaws, etc.



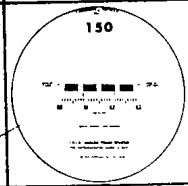
No. 128 — Holes, Decimal inch sizes.
Eighteen sizes from .001 in. to .050 in. For checking holes in spray nozzles, gas jets, ball-point pens, instruments, watches, etc.



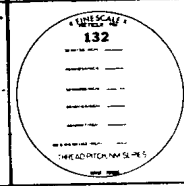
No. 129 — Counting Grid, 10 X 10mm.
Used in many biological sciences; for soil analysis, spray pattern studies, etc.



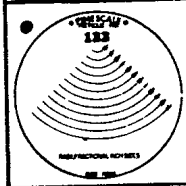
No. 149 — Azimuth and Bearing Circle
1.0 degree div. Preferred over No. 123 for map reading.



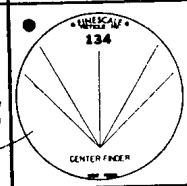
No. 150 — I.R.I.G. Analog Track Spacing
For instrumentation magnetic tape.



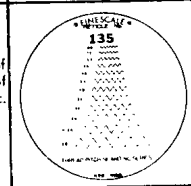
No. 132 — Thread Pitch, NM series.
For checking threads in the new "miniature" series. See reticle No. 135 for others.



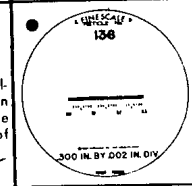
No. 133 — Radii, Fractional inch sizes.
From 1/32 in. to 3/8 in. by 1/32 in. steps. See No. 139 for decimal inch sizes.



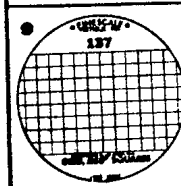
No. 134 — Center Finder.
For checking accuracy of centers and keyways of small shafts, layouts, etc.



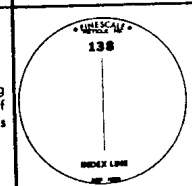
No. 135 — Thread Pitch, NF and NC series.
All threads from smallest to 20 THDS/IN in both series. See reticle No. 132 for pitch of new NM series.



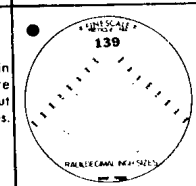
No. 136 — .300 in. By .002 in. Div.
Similar to No. 121, but with finer divisions for still more accurate measurements. By reading on the lines or between them measurements to .001" are read directly.



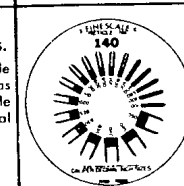
No. 137 — Grid. .050" x .050" squares.
First made for checking layouts and inspecting of electronic wiring boards (printed circuits).



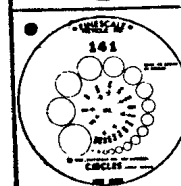
No. 138 — Index Line.
First made for use in Comparators which are built into special layout and measuring machines.



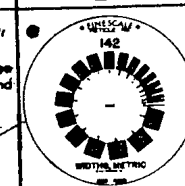
No. 139 — Radii, Decimal inch sizes.
A companion to Reticle No. 133. This one has decimal inch sizes while the other has fractional inch sizes.



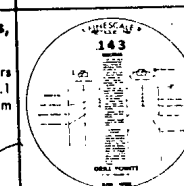
No. 140 — Caliper, Decimal inch sizes
Somewhat similar to Reticle No. 125. Consider No 125 as a feeler-gage and this one as a snap-gage for miniature parts and dimensions.



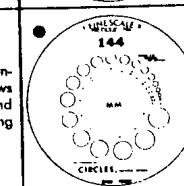
No. 141 — Circles, inch sizes.
Like No. 128 except open circles. Both fractional and decimal inch sizes.



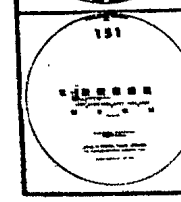
No. 142 — Widths, metric sizes.
Like No. 125 but with bars varying in width from 0.1 mm to 2.0 mm by 0.1 mm increments.



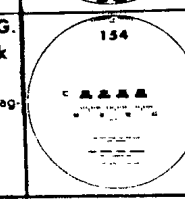
No. 143 — Drill Points.
For checking the sharpening of small drills. Shows correct point angle and lip clearance for drilling various materials.



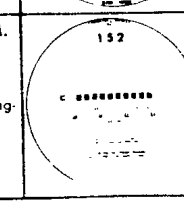
No. 144 — Circles, metric sizes.
Open circles like No. 141 but metric sizes from 0.1 to 2.0 mm dia. by 0.1 mm increments.



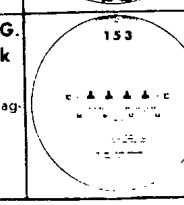
No. 151 — I.R.I.G. 16 Digital Track Spacing
For instrumentation magnetic tape.



No. 154 — I.B.M. Digital Track Spacing
For instrumentation magnetic tape.



No. 152 — I.R.I.G. 32 Digital Track Spacing
For instrumentation magnetic tape.



No. 153 — In Line Track Spacing
For instrumentation magnetic tape.